

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 016

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100
TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGION
4393 (S16W08) CONTINUES TO BE THE LARGEST AND MOST ACTIVE SPOT
GROUP ON THE DISK WITH A F TYPE SPOT CLASSIFICATION AND A BETA
GAMMA MAGNETIC CONFIGURATION. THE LEVEL OF ACTIVITY HAS
REMAINED BELOW C LEVELS FOR X-RAYS AND CONSISTED OF SUBFLARES
OPTICALLY. THE REGION HAS SHOWN SLIGHT DECAY THIS PERIOD.

REGION 4392 (S13W22) IS NOW A C TYPE SPOT GROUP AND HAS BEEN
QUIET. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4394 (S04E72),
A C TYPE SPOT GROUP. THE REST OF THE DISK APPEARED STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW THIS
PERIOD. THERE IS A SLIGHT CHANCE OF MODERATE ACTIVITY IF REGION
4393 SHOWS DRAMATIC CHANGES IN IT'S PRESENT CONFIGURATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUIET AT ALL LATITUDES THIS
PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD BE QUIET AT MIDLATITUDES AND UNSETTLED AT HIGH LATITUDES
THE FIRST DAY OF THE FORECAST. THE FINAL TWO DAYS OF THE
PERIOD, THE FIELD SHOULD BE UNSETTLED AT MIDLATITUDES AND
ACTIVE AT HIGH LATITUDES.

III. EVENT PROBABILITIES 17 JAN-19 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JAN 101

PREDICTED 17 JAN-19 JAN 100/101/102

90 DAY MEAN 16 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JAN 006/006

ESTIMATED AFR/AP 16 JAN 007/010

PREDICTED AFR/AP 17 JAN-19 JAN 005/010-010/015-010/015

SOLTERWARN

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